Signature

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UTILITY	Attomey Docket No.	D-2511Div1/WOD
PATENT APPLICATION TRANSMITTAL	First Inventor	Danny D. Beaver
	Title	Forming Serpentine Heat Exchangers from Spine Fin
(Only for new popprovisional applications under 37 CFR 1 53(b))	Evamos Mail Label No.	ET320207064US

(Only for new nonprovisional applications under 37 CFR 1.53(b)) **Mail Stop Patent Application APPLICATION ELEMENTS** Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria VA 22313-1450 1. 🔽 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. Specification [Total Pages_ Computer Readable Form (CRF) (preferred arrangement set forth below) - Descriptive title of the invention h Specification Sequence Listing on: - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D CD-ROM or CD-R (2 copies); or - Reference to sequence listing, a table, or a computer program listing appendix Paper - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) Statements verifying identity of above copies - Detailed Description ACCOMPANYING APPLICATION PARTS - Claim(s) - Abstract of the Disclosure 9. 🗹 Assignment Papers (cover sheet & document(s)) Power of 37 CFR 3.73(b) Statement (when there is an assignee) Attomey 5. Oath or Declaration [Total Sheets 26 English Translation Document (if applicable) a. Newly executed (original or copy) Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations b. Copy from a prior application (37 CFR 1.63(d)) **Preliminary Amendment** (for continuation/divisional with Box 18 completed) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) name in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 6. 17. 🔲 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: of prior application No.: 10/005,775 Continuation Divisional Continuation-in-part (CIP) Examiner Eric B. Compton Art Unit: 3726 Prior application information: For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS OR Correspondence address below **Customer Number:** Name William O'Driscoll - 12-1 Trane Address 3600 Pammel Creek Road State | WI City Zip Code La Crosse 54601 Country Telephone | 608-787-2538 Fax **United States** 608-787-3755 Name (Print/Type) | William O'Driscoll Registration No. (Attorney/Agent) 33,294

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL Application Number Filing Date for FY 2004 Danny D. Beaver First Named Inventor Effective 10/01/2003. Patent fees are subject to annual revision. **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 Art Unit (\$) 770.00 **TOTAL AMOUNT OF PAYMENT** D-2511Div1/WOD Attorney Docket No. METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) Money 3. ADDITIONAL FEES Check Credit card Other None Order Large Entity , Small Entity ✓ Deposit Account: Fee Fee **Fee Description** Deposit Code (\$) Code (\$) Fee Paid 20-1434 Account 1051 130 2051 65 Surcharge - late filing fee or oath Number Deposit 1052 50 2052 Surcharge - late provisional filing fee or Trane Account Name cover sheet 130 Non-English specification 1053 130 1053 The Director is authorized to: (check all that apply) 1812 2,520 For filing a request for ex parte reexamination 1812 2,520 Charge fee(s) indicated below ✔ Credit any overpayments 920* Requesting publication of SIR prior to 1804 920 1804 Charge any additional fee(s) or any underpayment of fee(s) Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1.840 1805 1.840* Requesting publication of SIR after Examiner action to the above-identified deposit account 1251 110 2251 Extension for reply within first month FEE CALCULATION 210 Extension for reply within second month 1252 420 2252 1. BASIC FILING FEE 1253 950 2253 475 Extension for reply within third month arge Entity Small Entity Fee Fee Code (\$) Fee **Fee Description** Fee Paid Fee 1254 1,480 2254 740 Extension for reply within fourth month Code (\$) 1,005 Extension for reply within fifth month 1255 2.010 2255 1001 770 2001 385 Utility filing fee 770.00 1401 330 2401 165 Notice of Appeal 1002 340 2002 170 Design filing fee 1402 330 2402 165 Filing a brief in support of an appeal 1003 530 2003 265 Plant filing fee 1403 290 145 Request for oral hearing 1004 770 2004 385 Reissue filina fee 2403 1005 160 2005 Provisional filing fee 1451 1.510 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - unavoidable SUBTOTAL (1) (\$) 770.00 1453 1.330 2453 665 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 2501 1501 1.330 665 Utility issue fee (or reissue) Fee from Ext<u>ra Claim</u>s Fee Paid 2502 below 1502 480 240 Design issue fee **Total Claims** l 16 ΧI 1503 640 2503 320 Plant issue fee Independent 3 1460 130 Petitions to the Commissioner 130 1460 Multiple Dependent 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Large Entity | Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt Fee Description Fee 40 Recording each patent assignment per Code (\$) Code (\$) 8021 40 8021 property (times number of properties) Claims in excess of 20 1202 18 2202 385 Filing a submission after final rejection (37 CFR 1.129(a)) 1809 770 2809 1201 86 Independent claims in excess of 3 2201 43 1203 290 Multiple dependent claim, if not paid 2203 145 1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b)) 1204 86 2204 ** Reissue independent claims over original patent 1801 770 2801 385 Request for Continued Examination (RCE) 900 1802 900 Request for expedited examination 1205 18 2205 ** Reissue claims in excess of 20 1802 and over original patent of a design application Other fee (specify) SUBTOTAL (2)

SUBMITTED BY				(Complete ((Complete (if applicable))	
Name (Print/Type)	William O'Driscoll	(Registration No. (Attorney/Agent)	33,294	Telephone	608-787-2538
Signature	William	Olders	IDO -		Date	2/17/2004

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**or number previously paid, if greater; For Reissues, see above

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE PATENT APPLICATION OF:

DANNY D. BEAVER

U.S. SERIAL NO: UNKNOWN

PARENT U.S. SERIAL NO: 10/005,775

11MBM1 0.0. BEN111 NO. 10,005,775

FILED: CONCURRENTLY

PARENT FILED: NOVEMBER 2, 2001

GROUP: UNKNOWN

PARENT GROUP: 3726

EXAMINER: UNKNOWN PARENT EXAMINER:

ERIC B. COMPTON

FOR: FORMING SERPENTINE HEAT EXCHANGERS

FROM SPINE FIN TUBING

La Crosse, Wisconsin February 17, 2004

CERTIFICATE OF MAILING BY EXPRESS MAIL UNDER 37 C.F.R. 1.10

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Dear Sir:

I hereby certify that the attached "Patent Application" is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on February 17, 2004, and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. The number of the Express Mailing label is ET320207064US.

Respectfully Submitted,

William O'Driscoll

Registration No. 33,294

Telephone Number: (608) 787-2538